

IOFF, N.Sh.

Building up breeding stocks of meat-type chickens on collective
and state farms. Ptitsevodstvo 9 no.9:18-21 8 '59.
(MIRA 12:12)

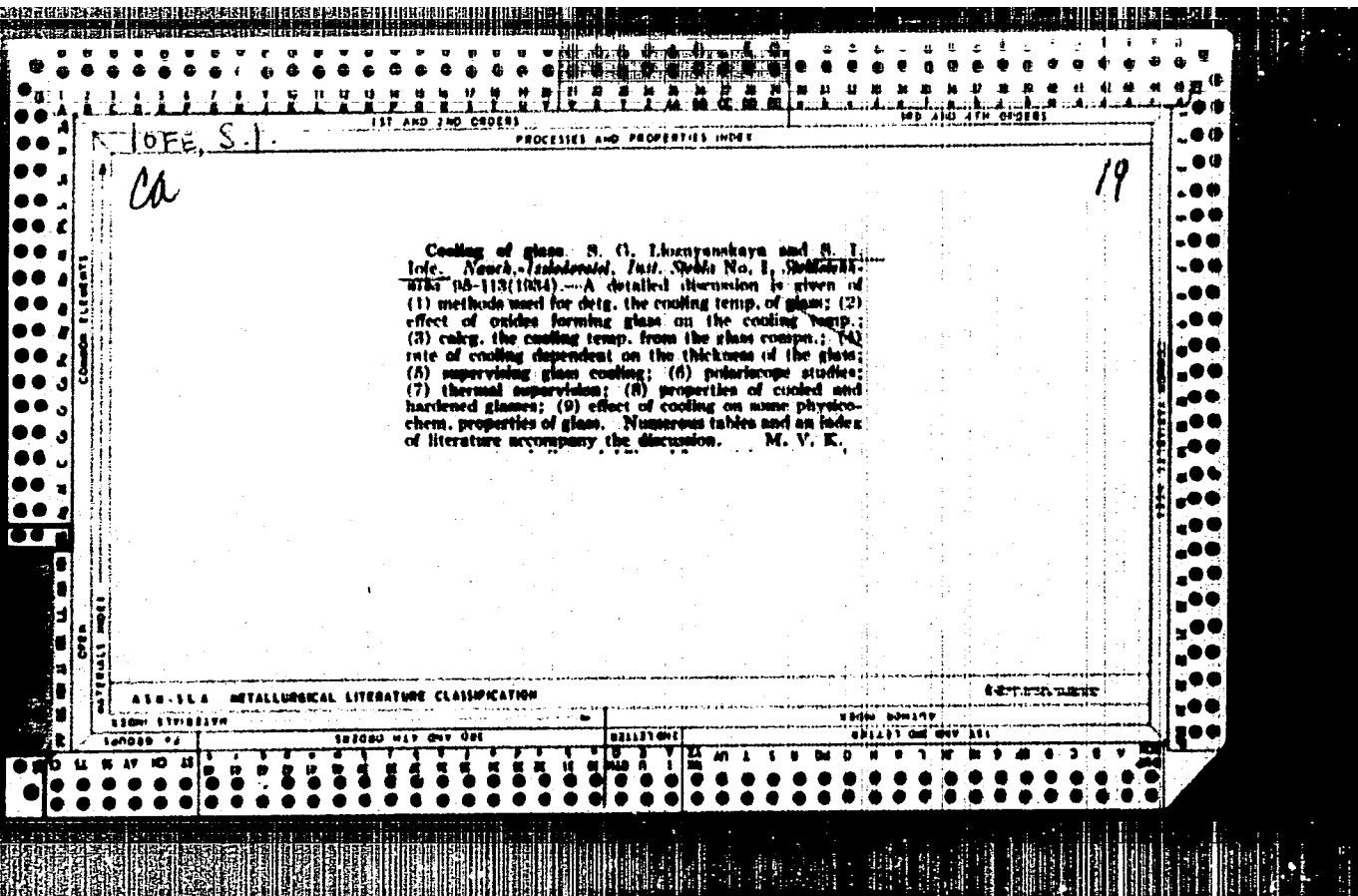
1. Starshiy zootehnik Glavnoy inspeksii zhivotnovodstva
Ministerstva sel'skogo khozyaystva SSSR.
(Poultry)

ARSENISHVILI, A.Yu.; BOGDANOV, M.N.; GORIZONTOVA, Ye.A.; YERSHOVA, Ye.I.;
YELENBAUM, N.I.; IOFE, N.Sh.; KARAVAYEV, A.M.; KOLOBOV, G.M.;
LOBIN, N.V., kand. sel'khoz. nauk; KUSHNER, Kh.P., doktor bilog.
nauk; MISHIN, P.N.; PATRIK, I.A., kand. sel'khoz. nauk; REDIKH,
V.K., kand. sel'khoz. nauk; SEMTNEV, S.I., akademik; SAMOLETOV,
A.I.; FILASOV, V.V.; SHKUDROVA, R.I.; SOKOLOVA, G.S., red.;
ROMANOVICH, Ye.F., red.; LEVINA, L.G., tekhn. red.

[Chickens for meat] TSypliata na miaso. Moskva, Izd-vo M-va
sel'.khoz. RSFSR, 1960. 197 p. (MIRA 15:1)
(Poultry)

BOGDANOV, Mikhail Nikolayevich; IOFE, Nokhm Shleymovich; DOBYCHINA, I.N.,
red.; TRUKHINA, O.N., tekhn. red.

[Raising chicken for meat] Vyrashchivanie miasnykh tsypliat. Mo-
skva, Gos.izd-vo sel'khoz.lit-ry, 1961. 87 p. (MIRA 15:1)
(Poultry)



EUROV, A.K., dekтор tekhnicheskikh nauk; ANDREYEVSKAYA, G.D., kandidat
tekhnicheskikh nauk; CHMUTOV, K.V., redaktor; IOFFE, S.I., re-
daktor; ZHLENKOVA, Ye.V., tekhnicheskiy redaktor.

[Anisotropic glass-fiber materials and their technical use]
Stekloelektronistyc anizotropnye materialy i ikh tekhnicheskoe
primenie. Moskva, Izd-vo Akademii nauk SSSR, 1956. 69 p.
(MIRA 9:6)

1.Chlen-korrespondent AN SSSR (for Chmутov)
(Glass fiber)

Iofe S.S.
AUTHORS:

Pik, I. Sh., Zaytseva, A. M.,
in Collaboration With Iofe, S. S.

64-58-2-13/16

TITLE:

Intensification of the Process of Pressing Aminoplastics
(Intensifikatsiya protsessa pressovaniya aminoplastov)

PERIODICAL:

Khimicheskaya Promyshlennost', 1958, Nr 2, pp. 54-56
(USSR)

ABSTRACT:

In the below mentioned plant for plastics it was decided upon to introduce a differentiation of the pressing exposure, a tabletting, high-frequency heating as well as higher temperatures and lower specific pressure in the pressing of aminoplastics for the purpose mentioned in the title. Corresponding to the mentioned hardening velocities it was found that the use of differentiated exposures gives the possibility of increasing the productivity by 6%. The tabletting carried out with the investigated aminoplastics showed that at various temperatures of pressing a shortening of the exposure could be obtained. Then it is pointed out that the tabletting of aminoplastics must be improved, and besides it was mentioned that tabletting

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Intensification of the Process of Pressing
Aminoplastics

64-58-2-13/16

can cause unfavorable phenomena in some articles. The use of high-frequency current for heating aminoplastics showed that also a considerable shortening of the period of pressing exposure was achieved, no degradation of the physico-chemical and physico-mechanical properties, respectively, of finished products having been observed. The investigations of the influence of the pressing temperature showed that the shortest period of pressing exposure is at $150 \pm 3^{\circ}\text{C}$, differentiations being mentioned referring to the quality and individual properties, respectively, of the finished product. Data in tables are given on the results obtained just as well as investigations of the quality of the finished product. The experiments carried out at various specific pressure (265, 250, 200 and 100 kg/cm^2) yielded positive results with the exception of the last lowest value at which the sample showed a pad after the experiment. It is recommended to employ the above mentioned ideas; at the same time it is necessary to carry out a reinforcement of the presses as well as the

Card 2/3

Intensification of the Process of Pressing
Aminoplastics

64-58-2-13/16

supply of the high-frequency plants with control apparatus, an improvement of the quality and a standardization of the aminoplastics.
There are 5 tables and 0 references.

ASSOCIATION: Karacharovskiy zavod plastmass (Plant
for Plastics)

AVAILABLE: Library of Congress

1. Plastics--Processing
2. Plastics--Temperature factors
3. Plastics--Electrical factors
4. Materials--Production

Card 3/3

IOFE, V. K.

19914 IOFE, V. K.

... K-voprosy ob elektroakustike radioveschchate l'nykh priyemnikov
(Po povodu statii V. A. Govyadinova «Elektroakustika radioveschchatel'nykh
priyemnikov» zhurn. «radiotekhnika», 1948, #6) diotekhnika, 1949, #3,
s. 69-72

So: Letopis Zhurnal Statey, Vol. 27, Moskva, 1949

IOFE, V.

[K]

20707. Iofe, V. i Godzevskiy, A. Kakim Dolzhen byt' vysokokachestvennyy priyemnik.
Po povodu odnoim. stat' i A. Frolova v zhurn. "Radio", 1948, No. 12. Radio, 1949
No. 6, s. 14-16

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

IOFE, V. K.; SAPOZHKOY, M. A.

Speech

Problem of the methodology of computing comprehensibility of speech, Trudy Kom. op. akust, No. 6, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

IOFE, Viktor Kivovich; PAPERNOV, L.Z., redaktor; MARTSINKOVICH, T.M.,
redaktor; SOKOLOVA, R.Ya., tekhnicheskij redaktor.

[Electroacoustics] Elektroakustika. Moskva, Gos. izd-vo lit-ry
po voprosam sviazi i radio, 1954. 182 p. (MIRA 8:1)
(Electroacoustics)

Iofe, VIKTOR K.

Call Nr: TK 5981.154

BGOK:

AUTHOR: Iofe, Viktor K.

TITLE: Electroacoustics (Elektroakustika)

PUB. DATA: Gosudarstvennoye izdatel'stvo literatury po voprosam svyazi i
radio, Moscow, 1954, 184 pp., 20,000 copies

ORIG. AGENCY: None given

EDITORS: Responsible Ed.: Papernov, L. Z., Editor: Martsinkevich, T. M.,
Tech. Ed.: Sokolova, R. Ya., Corrector: Dik, I. A.

PURPOSE: Approved by the Main Administration of Educational Institutions of
the Ministry of Communications as a textbook on electroacoustics
for students of communication tekhnikums.

COVERAGE: The book presents principles of acoustics; production and trans-
mission of sound, sources and receivers of sound; mechanism of
microphones, loudspeakers, telephones, and sound recording and re-
production. The book contains Russian contributions; no personalities
mentioned. There are 18 references, all of which are USSR.

Card 1/5

Electroacoustics (Elektreakustika) (cont.)

Call Nr: TK 5981.154

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Electroacoustics (Elektroakustika) (Cont.)

Call No. TK 5981.154

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Electroacoustics (Elektroakustika) (Cont.)

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AVAILABLE: Library of Congress
Card 5/5

IOFE, V.K.; YANPOL'SKIY, A.A.; VARSHAVSKIY, L.A., redaktor; VORONETSKAYA, L.V.,
tekhnicheskiy redaktor.

[Diagrams and tables for calculations in electroacoustics] Raschetnye
grafiki i tablitsy po elektrouakustike. Moskva, Gos. energ. izd-vo, 1954.
522 p. (MLRA 8:1)

(Electroacoustics)

Iofe, V. K.

J-8

Category : USSR/Acoustics - Physiological Acoustics. Speech and Singing

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4815

Author : Iofe, V.K.
Title : Design of Transmission Channels with Limited Power for Articulation.

Orig Pub : Tr. Vses, n.-i im-ta radioveschchat. priema i akust., 1955, vyp. 5,
16-23

Abstract : The dependence of the coefficient of perception of the i'th equal-articulation band P_i on the level E'_f of the formant sensation is represented by a curve having a varying slope. Therefore, equal increments in E'_f cause different increments in P_i , depending on the initial value of E'_f , which, other conditions being equal, depends on the frequency location of the band. If the channel has limited power, it is convenient to distribute the power among the bands in such a way as to obtain a maximum sum of p_i over the entire range. To calculate the channel, the following equation is derived

$$E'_f = 10 \cdot \log \Delta N_i + Q$$

where ΔN_i is the power applied to the loudspeaker in the given band, and Q a certain constant for the given band and for the given channel,

Card : 1/2

Category : USSR/Acoustics - Physiological Acoustics. Speech and Singing

J-8

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4815

expressed in decibels. Analytical calculation is possible only for the case of two bands. The trial and error method is recommended in which Q is determined for each band and the possible power is gradually applied in equal shares to each band; E'_i and p_i are then calculated; it is determined in what bands the subsequent additions of power are most effective. The result is an establishment of the most suitable distribution.

Card : 2/2

DNEPROVSKAYA, I.A.; IOFE, V.K.; LEVITAS, F.I.

Attenuation of sound propagated in the atmosphere. Akust. zhur.
8 no.3:301-307 '62. (MIRA 15:11)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy institut
radioveschchatel'nogo priyema i akustiki im. A.S.Popova, Leningrad.
(Atmospheric acoustics)

IOFE, Ya.

Disappearing seasonal production. Mias. ind. SSSR 29 no.5:26-27
'58. (MIRA 11:10)

1. Glavnnyy inzhener upravleniya myasnoy i molochnoy promyshlennosti Vinnitskogo sovnarkhoza.
(Vinnitsa--Packing houses)

IOFF, Yu.M.

BTR

22

9179* A Method of Measuring the Thermal Conductivity of Ceramic Materials. (In Russian.) I. A. Alperovich and Yu M. Ioff. *Steklo i Keramika*, v. 8, Dec. 1951, p. 21-23.
Equipment and procedure for the above are described. Data are tabulated.

SHINTEL'MEYSTER, I.; PUMPER, Ye.Ya., red.; IOFE, Yu.M., red.; MURASHOVA,
N.Ya., tekhn.red.

[Electron tube as a device for physical measurements] Elektronnaja
lampa kak pribor dlja fizicheskikh izmerenii. Moskva, Gos.izd-vo
tekhniko-teoret.lit-ry, 1959. 343 p. (MIRA 12:12)
(Electron tubes) (Electric measurements)

IOFF, I.G. [deceased]; TIFLOV, V. Ye.; FEDINA, O.A. [deceased]

List of flea species (Suctoria) in Stavropol Territory. Mat. k
pozn. fauny i flory SSSR. Otd. zool. no.39:24-30 '64.
(MIRA 17:6)

IOFF, Ivan Grigor'yevich; MIKULIN, Mitrofan Alekseyevich;
SKALON, Ol'ga Ivanovna; OLSUF'YEV, N.G., red.

[Guide to the fleas of Central Asia and Kazakhstan] Opre-
delitel' blokh Srednei Azii i Kazakhstana. Moskva, Me-
ditsina, 1965. 369 p. (MIRA 18:7)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5

IOFF, Nikolay Abramovich

DECEASED

c. 1962

1963/4

Embryology - invertebrates

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5"

TUV, I.A., kand.tekhn.nauk; IOFF, U.M., inzh.

Efficiency of burning watery fuel oils. Proizv.-tekhn. sobr. no.3:3-
19 '59. (MIRA 13:10)

1. Leningradskiy institut vodnogo transporta.
(Petroleum as fuel) (Marine engines--Combustion)

ГУВ, И.А., канд. техн. наук; ИОФИ, У.М., инzh.

Utilizing heavily watered fuel oils as boiler fuel. Rech. trans.
18 no.8:29-32 Ag '59.
(Petroleum as fuel)

TUV, I.A.; IOFF, U.M.; RZHAVSKIY, Ye.L.

Using fuel oils with a high water content and fuel oil sludge
as boiler oil. Neft.khos. 37 no.12:44-49 D '59.
(MIRA 13:5)

(Fuel oil)

MLODZEYEVSKIY, A.B., prof.; IOFE, Yu.M., red.; SIRELESA, A.I., tekhn. red.

[Lecture demonstrations in physics] Lektsionnye demonstratsii po fizike. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry. No.1. [General instructions, molecular physics, and thermodynamics] Obshchie ukazaniia, molekuliarnaia fizika i termodynamika. 1948. 170 p.
(MIRA 14:7)

(Physics—Experiments)

IOFF, N.A. (Moskva)

The cancer problem in the light of embryological data. Arkh.pat.
20 no.1:12-22 '58. (MIRA 13:12)

1. Iz kafedry embriologii Moskovskogo gosudarstvennogo universiteta
imeni Lomonosova.

(CANCER)

IOFFA, I. A.

Vosstanovlenie instrumenta. Iz opyta Uralmashzavoda. (Novatory proizvodstva)
Reconditioning tools; from experience of the Ural Heavy Machinery Factory
(innovators of production). Mashgiz, Moskva-Sverdlovsk, 1953. 32 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 1 April 1954.

IOFFA, L. Ye.

IOFFA, L. Ye. - "Cities in the Urals." Sub 28 Mar 52, Moscow
Order of Lenin State U imeni M. V. Lomonosov. (Dissertation
for the Degree of Candidate in Geographical Sciences).

SO: Vechernaya Moskva January-December 1952

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5

TOFFE, A.

Ch

The problem of the filtration of water in a heterogeneous medium. A. Ioffe. *Zh. Tekh. Phys.*, U.S.S.R., 1, 403-16
(1934)(in English); *J. Tech. Phys.* (U.S.S.R.), 3,
67-80(1935)(in Russian). Theoretical math.
F. H. Rathmann

12/

A58-114 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5"

IOFFE, Anne

v0

PHOTOCHEMICAL FORCES IN CUPRIC CRYSTALS. Anne Ioffe and A. P. Joffe. *Physik Z. Suppliment 7*, 347'80 (1937); cf. U. S. 3,7141. These forces are caused by a difference in concn. of electrons at the electrodes and a flow of electrons away from the illuminated area. The illuminated areas have greater p.m. potentials. Concentrated results are obtained only with transparent electrolytes. The diffusion theory of this effect does not agree with exp.; the reasons for this are discussed. New formulas derived by the authors agree with exp. A. B. R. 17.

COPY

1944

OPTIONAL COUNTRY CLASSIFICATION

Ioffe, A.

USSR/Processes and Equipment for Chemical Industries.
Processes and Apparatus for Chemical Technology

K-1

Abs Jour : Referat Zhur - Khimiya, No 9, 1957, 33252
 Author : Ioffe, A., Stil'bans, L., Iordanishvili, Ye.,
Fedorovich, A.
 Inst :
 Title : Thermoelectric Cooling in Refrigeration Engineering
 Orig Pub : Kholodil'naya tekhnika, 1956, No 3, 5-16

Abstract : A brief consideration of the physical phenomena upon which the thermoelectric cooling is based, and a presentation of the fundamental propositions of the theory of A.I. Ioffe. A formula is given for determination of the refrigeration coefficient Σ , from which it follows that Σ does not depend on geometrical dimensions and shape of the thermoelements but is determined by the physical characteristics of semiconductor materials (thermal and electric conductivity, thermo e.m.f. of thermoelement branches)

Card 1/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620012-5"

USSR/Processes and Equipment for Chemical Industries -
Processes and Apparatus for Chemical Technology

K-1

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 33252

and the temperature of hot and cold junctions t_2 and t_x ; with increase of $\Delta t = t_2 - t_x$ the Σ is greatly decreased and at a certain value Δt_{\max} it becomes equal to zero. In order to increase Σ it is necessary to use multicasade system cooling, in which several batteries are utilized, each of which operates at a lower Δt and, consequently, at a higher Σ . A brief description is given of thermo-electric refrigerators with batteries made from PbTe - PbSe alloys (negative branch) and an alloy based on Te and Sb (positive branch); Experience has shown that in the case of such batteries $\Delta t_{\max} = 470$. Difficulties arise in the selection of electric insulation interlayers between the cascades which must have a sufficiently high heat conductivity. It was found that the best interlayer is one consisting of FG-9 silicone lacquer containing a 6% addition of Al powder.

Card 2/2

PLETNEV, A., inzh.; IOFFE, A., starshiy nauchnyy sotrudnik

Investigating binding and wall materials from the Nal'chik volcanic ashes. Sbor. nauch. soob. NII sel'stroia no. 2:78-87 '60.
(MIRA 15:5)
(Nal'chik region--Volcanic ash, tuff, etc.)
(Construction materials)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5

IOFFE, A. (Leningrad); DOBRONRAVOV, N. (Leningrad)

Observations concerning the spreading of X-ray impulses. Magy fiz
folyoir 8 no.3:255-258 '60. (EEAI 10:1)
(X-rays)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5"

34139
S/149/62/000/001/008/009
A006/A101

18.12.46
15.22.40

AUTHORS: Fedorov, P. I., Ioffe, A. A.

TITLE: On lithium-silicon alloys

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya,
no. 1, 1962, 127 - 131

TEXT: To complete data on the lithium-silicon system presented by H. Böhm, the authors have published data obtained by thermal and microstructural analysis of the system. The initial materials were lithium of 98.5% purity containing 0.8% Na, 0.2% K and 0.2% Mg and silicon of 98.5% purity containing iron, aluminum and calcium admixtures. The microstructural analysis was made with slow-cooled and cast alloys, produced in a special device. Results of the thermal analysis are tabulated and a constitutional diagram is given (Figure 2). The liquidus consists of three lines. Lines AB and BC correspond to the crystallization of two Li₄Si modifications from the melt, designed as β and β' , and line DC corresponds to the crystallization of phase γ with a higher Si content, which obviously corresponds to Li₂Si silicide described in literature. The AK horizontal is an eutectic line. Interruptions on the cooling curves corresponding to this

Card 1/2 2

On lithium-silicon alloys

34139
S/149/62/000/001/008/009
A006/A101

line are observed at 182°C, whereas the lithium employed has a melting temperature of 185°C. Lithium silicide Li_4Si dissociates at 636°C by a peritectic reaction (line CEF). Horizontals BG and HI are apparently associated with the polymorphous transformation of this silicide. Line BG is an eutectoid and HI a peritectoid line. The homogeneous range of the β -phase extends from about 49 to 53 weight %. The composition point of Li_4Si (50.3 weight % Si) is located within this range. Alloys containing over 50% Si are heterogeneous. The density of Li_4Si is equal to 1.16 - 1.17. The chemical properties of lithium silicide were established by investigating the behavior of the alloy in respect to dry air, water, sulfur, liquid bromine, and other substances. There are 4 figures, 1 table and 8 references, 2 Soviet-bloc and 6 non-Soviet-bloc.

ASSOCIATIONS: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow Institute of Fine Chemical Technology) Kafedra khimii i tekhnologii redkikh i rasseyannykh elementov (Department of Chemistry and Technology of Rare and Dispersed Elements)

SUBMITTED: February 22, 1961

Card 2/1 2

BATALOV, Nikolay Mikhaylovich; BELYIY, Valentin Antonovich; IONEN, Aleksandr Borisovich; RABINOVICH, Aron Abramovich; SINAYSKIY, Mikhail Mikhaylovich; IVANOV, V.M., red.; VOROWIN, K.P., tekhn.red.

[Electric motors for cranes and metallurgical plants: theory, construction, use] Kranovo-metallurgicheskie elektrosvigateli: teoriia, konstruktsiiia, primenenie. Pod obshchei red. A.A.Rabino-vicha. Moskva, Gos. energ. izd-vo, 1958. 168 p. (MIRA 11:5)
(Electric motors)

IOFFE, A. B.

PA 16T86

USSR/Currents, Electric - Direct
Motors, Electric Jul 1947

"Computations for Direct Current Machines,"
A. B. Ioffe, 4 pp

"Vest Elektro Prom" No 7

Passage of current dispersed in the frontal parts
of commutator cells under magnetic or non-magnetic
bands. Reaction of rotors in machines with weak
fields working under large overloads. The size
of an ideal polar arc. Size of ampere - turn
casing. The uni-polar system of excitation.
Mechanical voltage in heads of cells of TDS.

IOFFE, A.B., kandidat tekhnicheskikh nauk.

Magnetic characteristics of auxiliary poles. Vest,elektroprom, 18 no.12:
8-12 D '47. (MLRA 6:12)

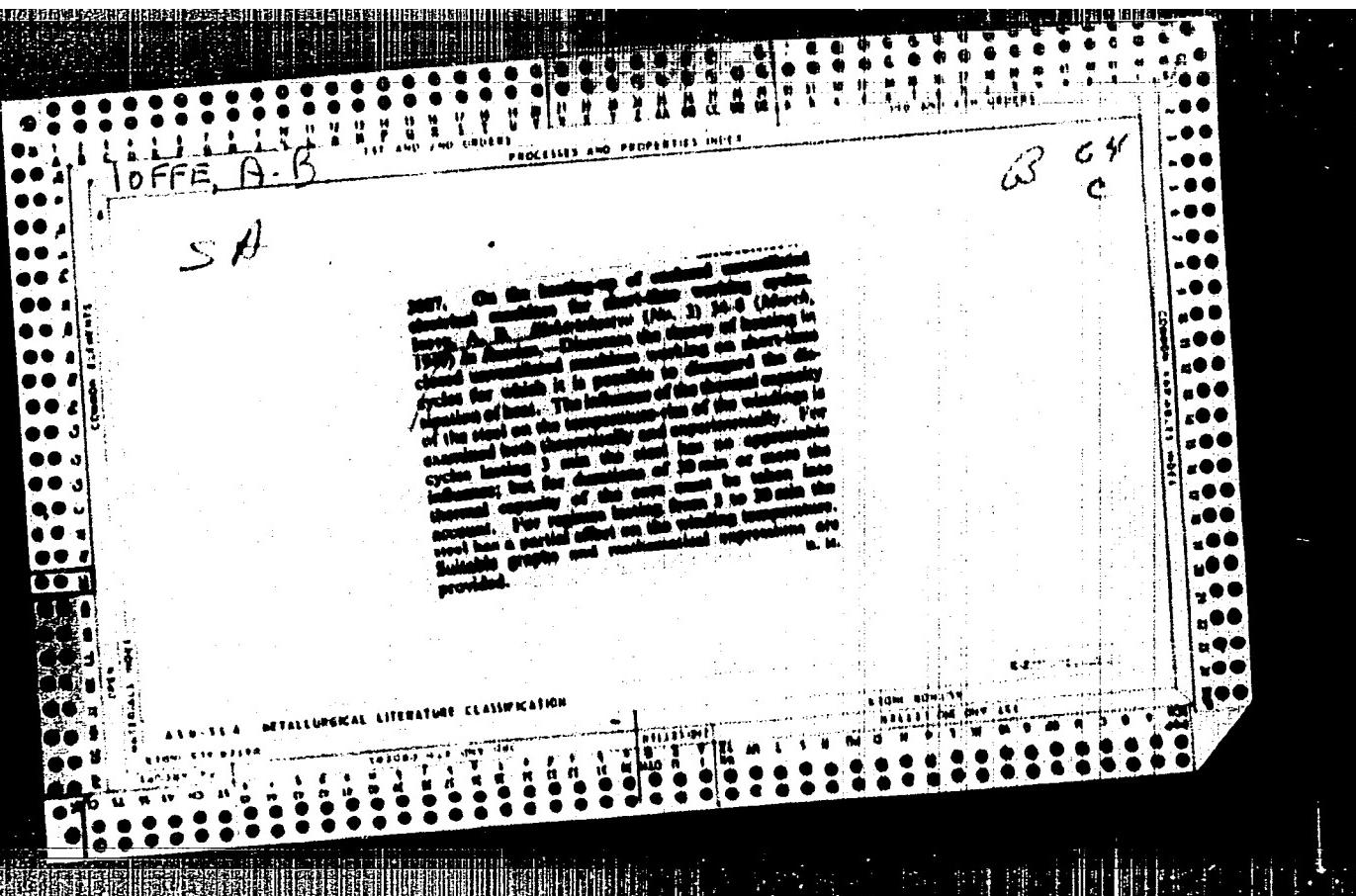
1. Zavod "Dinamo" im. S.M.Kirova.
(Electric motors--Design and construction)

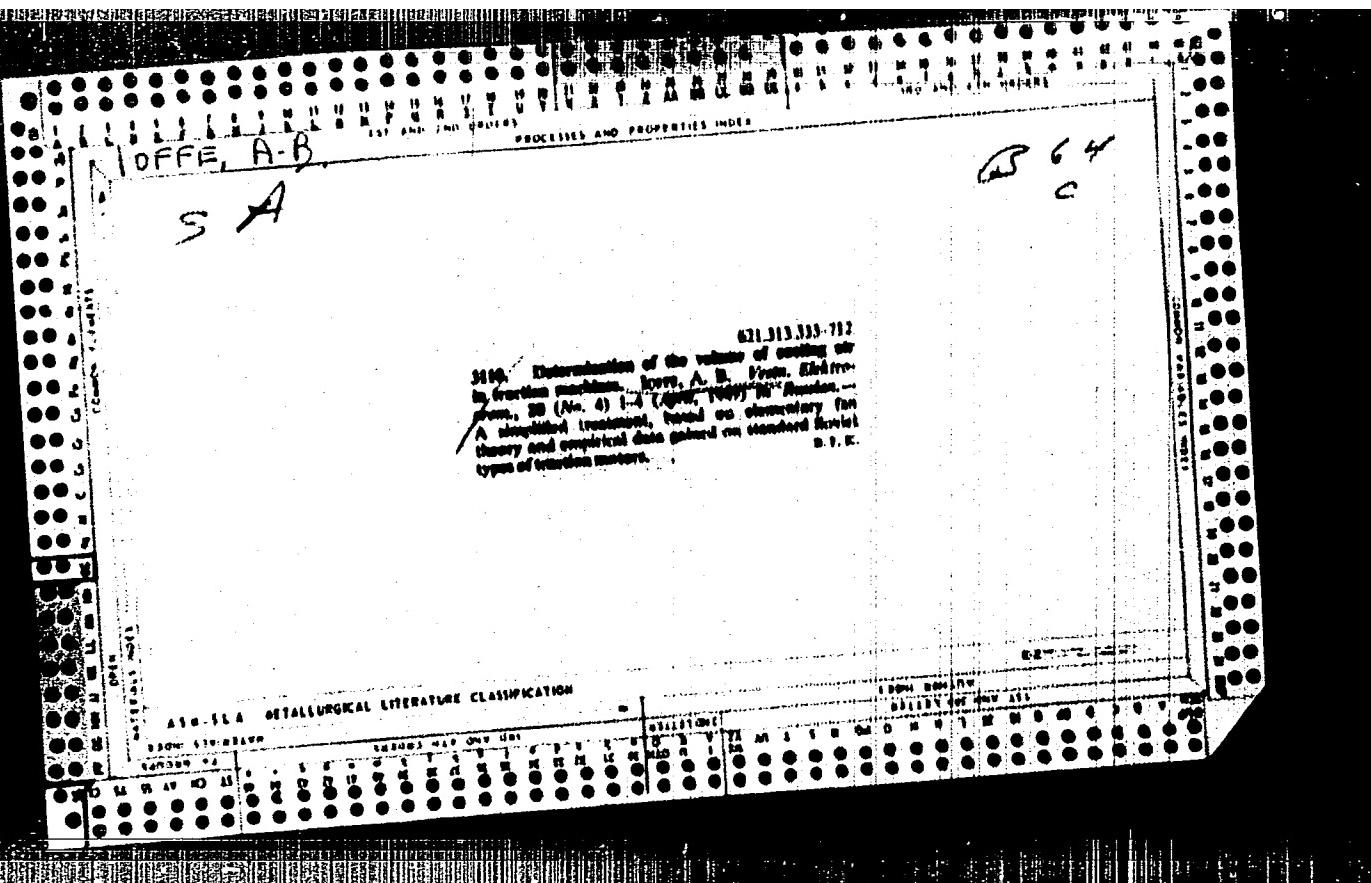
IOFFE, A.B., kandidat tekhnicheskikh nauk.

New method of computing commutation losses in direct current machines.
Vest.elektroprom. 19 no.3:20-21 Mr '48. (MLRA 6:12)

1. Zavod "Dinamo" im. S.M.Kirova.

(Commutation (Electricity))





"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5

IOFFE, A. E.

33122

Znacheniya Koefitsiyentov Teplootdachi Aktivnykh Chastey Zakrytykh Elektricheskikh Mashin.
Vestnik Elektro prom-Sti, 1949, No 10, c. 1-6

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5"

TOFFE, A.-B.

54

1960). On the basis of a detailed literature review, A. B. Zhdanov (Metallurgist, No. 9-14 (Jan.-Mar. 1960), *An Assessment*) has summarized the available data on the problem, depending upon the different methods of calculating and determining it. There is no general view on the fundamental theoretical parameters on which measurements may be based, i.e., peripheral speed of the structure or crossing air velocity or quantity. The problem is theoretically analyzed and a new method is proposed to based on experimental data obtained on a wide series of Soviet tanks.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5"

IOFFE, A. B.

Electrical Engineering Abstracts
May 1951
Machines.

194. Potential conditions on the commutator of h.v. traction motors and measures for improving them.
A. B. Ioffe. Elektrotehnika, 1951, No. 4, 42-5. In Russian.

For the motor-units or coaches on Soviet railways with 3300 V operating voltage, series-connected pairs of motors of 1650 V terminal voltage are used. Manufacture of these motors is difficult owing to the comparative smallness of the wheel diameters of the coaches (1050 mm), the armature diameter being limited to 440 mm and the collector to 380 mm. On the latter not more than 301 segments can be accommodated, so that the voltage between bars is 22 V. The difficult operating conditions of axle-suspended traction motors further complicate the potential conditions on the commutator. The author analyses the various causes of commutator flashovers on the basis of experimental potential curves and derives design principles for such motors based on the voltage per running cm of commutator periphery and voltage between bars, as well as the field distortion caused by armature reaction and on pole curvature and theoretical air gap. The potential curve of the commutator can thus be predicted and if need be modified at the design stage and the danger of flashovers thereby reduced. Since this requirement is to some degree incompatible with the need for using the motors for power braking (calculus of replacement), a compromise has to be found, which the author presents in its essentials, in the form of characteristics of 1650 V and 823 V motors.

B. P. KRAV

~~IOFFE~~, Aleksandr Borisovich; IVANOV, V.M., redaktor.; LARIONOV, G.Ye.,
tekhnicheskiy redaktor.

[Electric traction machinery: theory, construction, design] Tiagovye
elektricheskie mashiny: teoriia, konstruktsiia, proektirovaniie. Mo-
skva, Gos.energ.izd-vo, 1957. 247 p.
(MLRA 10:5)
(Electric locomotives)

AUTHOR: Ioffe A.B. (Cand.Tech.Sci.)

110-7-9/30

TITLE: Concerning a traction motor for new motor coach sections.
(O tyagovom elektrodvigatele dlya novykh motorvagonnykh sektsiy.)

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the Electrical Industry), Vol.28, No.7, 1957, pp.30-33 (USSR)

ABSTRACT: At the present time a new series of motor coach sections type CH has been built and tested and preparations are being made for the output of further sections. Design work continues on the improvement of individual items of equipment. The first part of the article explains the difficult conditions of operation of traction motors particularly in respect of exposure to dirt and water and mechanical shocks. The limitations on commutator design are explained. The decision that was taken after the war to electrify suburban railways at 3000 volts called for the development of a new electric motor to replace machine type ~~AK~~-152 which was designed for 750/1500 V. Since the actual coaches and bogies were not changed the new electric motor type AK-103 had to be no bigger than machine type ~~AK~~-152 and so it had to be almost a true octagon in shape. (Fig.1). Therefore, the armature and commutator had to be

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1/3

Concerning a traction motor for new motor coach sections.
(Cont.)

110-7-9/30

of relatively small diameter. A number of design features and improvements that were made to motor type ΔK -103 are listed. They have ensured its satisfactory operation in service. However, it was undoubtedly necessary to improve the working conditions of the motor.

Apart from the possibility of using a 750-3000 V machine there was no possibility of making a radical improvement in the motor design with the given bogie. Work was started in 1951 on the design of a new motor type ΔK -106 intended for the new motor coach sections type CH. This motor, illustrated in Fig.4, is of 200 kW output at 830/1140 rpm (full and weakened field). The commutator diameter is 460 mm and the armature diameter 520 mm. This increase in commutator diameter for a given frame diameter was possible because the frame was made square. The maximum voltage between commutator bars in machine type ΔK -106 is 39 V. The voltage per centimeter of commutator circumference is 15% lower than in motor type ΔK -103. Tests on motor type ΔK -106 both on the bench and in a train provided general confirmation of the correctness of the design principles adopted. The specific weight of motor type ΔK -106 is

Card
2/3

Concerning a traction motor for new motor coach sections.
(Cont.)

110-7-9/30

11.0 kg/kW as against 15 kg/kW for type AK-103. Improvement in the method of connecting the motor to the wheels is suggested. It is also important to develop regenerative braking for motor coach sections, which in practice will only be possible by adopting the author's suggestion to use motors of 750/3000 V.

There are 4 figures and 2 Slavic references.

ASSOCIATION: Dinamo Works. (Zavod "Dinamo").

AVAILABLE:

Card 3/3

IOFFE, A.B., kand.tekhn.nauk.

Some problems of calculating binding coils for electric machines.
Vest.elektrprom. 28 no.8:17-19 Ag '57. (MIRA 10:10)

1.Zavod "Dinamo."
(Electric motors)

SOV/110-59-6-10/24

AUTHOR: Ioffe, A.B., Candidate of Technical Sciences

TITLE: Calculation of the Quality of Commutation of a Direct Current Motor with Pulsating Voltage Supply (O raschete kachestva kommutatsii elektrodvigatelya postoyannogo toka, pitayemogo ot pul'siruyushchego napryazheniya)

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 6, pp 44-47 (USSR)

ABSTRACT: Traction motors supplied by semiconductor rectifiers look promising for electric locomotives. With this type of supply the voltage applied to the machine is pulsating and may be considered as the sum of a d.c. component and a second-harmonic a.c. component as indicated in Fig 1. In most practical cases the motor field winding is shunted by active resistance through which the second harmonic current passes and so there is practically no pulsation in the machine field current. There is, however, appreciable pulsation of the mmf of the interpole because pulsating current flows through the inter-pole windings. It causes eddy-currents in the inter-pole core and the frame, which upset the balance between reactive and commutating emf's because the change in flux of the

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SOV/110-59-6-10/24

Calculation of the Quality of Commutation of a Direct Current Motor
with Pulsating Voltage Supply

inter-pole lags behind the change in current. This causes sparking at the brushes. Mathematical analysis of these processes, which was first given by S.A.Petrov, is very complicated and the object of this article is to give a relatively simple and practical method of calculating the value of the inter-pole flux of a d.c. motor supplied by a pulsating voltage. The distribution of the magnetic flux in the solid core can be expressed by Eq (5) or the curve of Fig 2. The depth of penetration of the flux into the core, Δ is determined from Eq (7). The permeability is influenced by the presence of the main d.c. field. Expression (8) is then given for the permeability of the inter-pole core and expression (9) for that of the machine frame. A method of successive approximations is used by selecting values for the induction under the inter-pole and the alternating component of the current. Expression (18) is then derived for the magnetising force and expression (19) for the pulsating component of the current where the number of turns on the inter-pole is given by expression (20). If

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SOV/110-59-6-10/24

Calculation of the Quality of Commutation of a Direct Current Motor
with Pulsating Voltage Supply

at the end of the calculation the current does not work out to the assumed value the calculation is repeated until satisfactory agreement is reached. Having found the induction under the inter-pole it is possible to determine the commutating emf: comparison with the reactive emf corresponding to the pulsating component of the current then indicates the degree of under-compensation. To determine the intensity of the consequent sparking in this case it is recommended to use the empirical graph in Fig 4. Here sparking is shown as a function of the remanent emf in the section of the winding short-circuited by the brush. Calculations by this procedure show that induction under the inter-poles is usually negative. It is shown that it does not help to increase the section of the inter-pole and the introduction of a second air-gap in the inter-pole has little effect. It may help to laminate the inter-pole but the effectiveness of this measure is reduced because the machine frame is solid. By way of example, a numerical

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SOV/110-59-6-10/24

Calculation of the Quality of Commutation of a Direct Current Motor
with Pulsating Voltage Supply

calculation is made of the induction under the inter-pole
due to the second harmonic for an electric motor
type KPDN4U, on which S.A.Petrov obtained his experimental
data. There are 4 figures and 3 Soviet references.

Card 4/4

IOFFE, A.B., kand.tekhn.nauk

Single-phase traction commutator motor with raised transformer
e.m.f. Vest.elektroprom. 31 no.1:68-70 Ja '60.
(MIRA 13:5)
(Electric railway motors)

IOFFE, A.B., kand.tekhn.nauk

New series of MTOOO-700 a.c. electric motors for electric cranes
and metallurgical plants. Vest. elektropram. 32 no.7:6-9 31 '61.
(MIRA 14:10)

(Electric motors, Alternating current)

TRAKHTMAN, I.M.; IOFFE, A.B.; CHERNYY, M.I.; KUZNETSOV, S.N.; SOLOV'YEV, N.
P.; DROGUSH, G.I.; KAPUSTIN, L.D.; VINBERG, B.G.; RUBCHINSKIY, Z.
M.; PETRO, G.A.; ZAGORDAN, N.M.; BRAVIN, V.F.

Multiple-unit rail car with regenerative braking. Prom. energ. 15
no.11:18-19 N '60. (MIRA 14:9)
(Railroad motorcars) (Electric railway motors)

IOFFE, Aleksandr Borisovich; NAKHODKIN, N.D., doktor tekhn. nauk,
retsenzent; IVANOV, V.M., inzh., red.

[Electric traction machines; theory, construction and
design] Tiagovye elektricheskie mashiny; teoriia, kon-
struktsiia, proektirovanie. izd.2., perer. i dop. Mc-
skva, Energiia, 1965. 231 p. (MIRA 18:3)

L 37654-66 EWT(d) IJP(c)
ACC NR: AP6015601

SOURCE CODE: UR/0020/66/168/002/0269/0272

23

22

B.

AUTHOR: Ioffe, A. D.

ORG: none

TITLE: Transforms of properly formulated variational problems

SOURCE: AN SSSR. Doklady, v. 168, no. 2, 1966, 269-272

TOPIC TAGS: differential equation, vector, mathematic space, mathematic transformation, sequence

ABSTRACT: The following differential equation and functional operator are considered:

$$\frac{dy}{dt} = f(t, y, u)$$

$$I(y) = \int_a^b F(t, y, u) dt$$

where t is a scalar; y an n-dimensional vector; and u a point of the metric compactum U. The functions f(t, y, u) and F(t, y, u) are continuous in $[a, b] \times \mathbb{R}^n \times U$ and continuously differentiable with respect to y. Two problems are formulated: (A) to find $\inf_D I(y)$; and (B) to determine $\inf \int_a^b F(t, y, u) dt$

in

$$D_0 = \{y(t) \in C^1[a, b], y(a) = y_0, y(b) = y_1, \dot{y}(t) \in Q(t, y)\}$$

UDC: 519.31/33

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L 37654-66

ACC NR: AP6015601

If problem A is properly formulated, then problems A and B are equivalent. D_0 is the closure of D in C^n $\bar{[a, b]}$;

$$\inf_D I(y) = \inf_{D_0} \int \tilde{F}(t, y, \dot{y}) dt;$$

if the sequence $y_m(t) \in D$ minimizes $I(y)$ in D, then it is a minimizing sequence for problem B. Conversely, for any sequence that minimizes $\int F(t, y, \dot{y}) dt$ in D_0 there exists a cofinal to it in C^n $\bar{[a, b]}$, which minimizes $I(y)$ in D. If D is compact in C^n $\bar{[a, b]}$, then $\inf \int \tilde{F}(t, y, \dot{y}) dt$ is attained on some $\bar{y}(t) \in D_0$, and in D there exists a sequence $y_m(t) \rightarrow \bar{y}(t)$ such that $\lim_{m \rightarrow \infty} I(y_m) = \int \tilde{F}(t, \bar{y}(t), \dot{\bar{y}}(t)) dt$. Two examples are

introduced. The author thanks V. M. Tikhomirov for valuable discussions and advice. This paper was presented by Academician A. N. Kolmogorov on 27 August 1965. Orig. art. has: 10 formulas.

SUB CODE: 12/ SUBM DATE: 26Jul65/ ORIG REF: 004

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Card 2/2

"APPROVED FOR RELEASE: 08/10/2001

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APPROVED FOR RELEASE: 08/10/2001

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 D204/D304

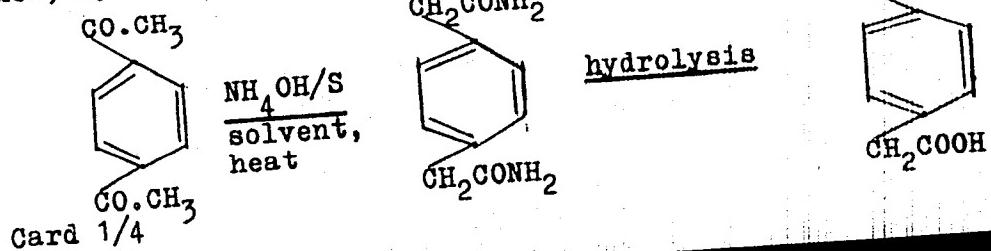
5.3400 2209

AUTHORS: Khcheyan, Kh. Ye., Ioffe, A. E. and Pavlichev, A. F.

TITLE: Synthesis of phenylene diacetic acids and their amides

PERIODICAL: Zhurnal prikladnoy khimii, v.35, no.1, 1962, 206-209

TEXT: This investigation was carried out in view of the wide applicability of phenylene diacetic acids and because the methods of synthesis hitherto reported were thought to comprise practical difficulties. The preparation of p- and m-phenylene diacetic acids and their diamides was studied, from the corresponding diacetyl benzenes, by Vil'gerodt's reaction, e.g.:



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Synthesis of phenylene ...

The reactions were conducted in an autoclave, using either sulphur and 26% NH₄OH or NH₄⁺ polysulphide, in pyridine, over 4.45 hours at 155 - 165°C, under a pressure of 15 - 20 atm. With ammonium polysulphide the yields reached 95%, but were decreased by shortening the reaction time and by changing the temperature or the ratio of the reactants. It was shown that the sulphur could be regenerated and re-used. A direct preparation by acid or alkaline hydrolysis of the reaction mass, without separating the amide, and using S/NH₄OH, was also achieved, with 85-90% yields. The latter were reduced to 70 - 75% when methanol was used in place of pyridine and to 40 - 50% when the reactions took place at 210 - 220°C in the absence of a solvent. Phenylene diacetic acids were also prepared by the Vil'gerodt-Kindler reaction, using morpholine and S, obtaining 80 - 85% and 70 - 75% yields of the p- and m-isomers respectively. The preparations were conducted at the b.p. of morpholine. The following conditions were carried out: (a) Reaction times (1 - 4 hrs), (b) diacetyl benzene : morpholine : sulphur ratio (1 : 4: 4), (c) duration of the alkaline hydrolysis (9 - 16 hours) and (d) con-

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D204/D304

Synthesis of phenylene ...

centration of the hydrolyzing alkaline solution (10 - 20%). It was found that the reduction of the reaction time to 1 hour, reactant- ratio to 1 : 2 : 2 and alkali concentration to 10% lowered the yields to 25 - 50%. The starting materials (diacetyl benzenes) were obtained by the aerial, liquid-phase oxidation of a mixture of ethyl benzenes at 130 - 140°C, using Co oleate and iso-propyl benzene hydrogen peroxide as the catalysts. All experimental details are given in full. The process is considered to be simple and economical and capable of utilization on an industrial scale. There are 1 figure and 25 references: 5 Soviet-bloc and 20 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: Sh. Murahashi and R. Anzai, Ch. A., 44, 11106, (1950); O. B. Edgar and R. Hill, J. Pol. Sci., 8, 1, (1952); P. V. Smith and F. Knoth, U.S. Pat. 2,570,038, (1951); K. Schofield and R. S. Theobald, J. Chem. Soc., 2404, (1949). X

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskikh spirtov (Scientific research Institute of Synthetic Alcohols)

Card 3/4

Synthesis of phenylene ...

SUBMITTED: February 24, 1961

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S/080/62/035/001/011/013

D204/D304

Card 4/4

YAKOBSON, G.G.; IOFFE, A.E.; VOROZHTSOV, mladshiy, N.N.

Alkylation and arylation of aromatic amines in the presence of metal fluorides. Izv. SO AN SSSR no.3 Ser. khim. nauk no.1: 156-158. '63. (MIRA 16:8)

1. Novosibirskiy institut organicheskoy khimi i Sibirskego otdeleniya AN SSSR i Khimiko-tehnologicheskiy institut im. D.I. Mendeleyeva, Moskva.
(Amines) (Alkylation) (Arylation)

SUKHNEV, V.A.; ZHUKOVA, L.A.; IOFFE, A.E.; KOLOKOLOVA, N.A.

Two-liquid micromanometer for measuring slight pressure losses
in rarefied gases. Izm. tekhn. no.12:17-19 D '63. (MIRA 16:12)

BAYKOV, S.D.; GAL'PERIN, Yu.F.; IOFFE, A.F.; SHLOKOV, G.N.

Ferrites with rectangular hysteresis loops for electronic-physical
apparatus. Mnogokan. izm. sist. v iad. fiz. no.5:158-164 '63.
(MIRA 16:12)

ACC NR: AR6016154

SOURCE CODE: UR/0053/65/000/011/A027/A027

AUTHOR: Ioffe, A. F.

TITLE: Operating principle of scale circuits for multi-hole cores with magnetic de-coupling [6]

SOURCE: Ref. zh. Fizika, Abs. 11A279

REF SOURCE: Tr. 6-y Nauchno-tehn. konferentsii po yadern. radioelektron. T. 1. M., Atomizdat, 1964, 208-222

TOPIC TAGS: computer memory, magnetic core storage, computer storage device

ABSTRACT: Scaler circuits with transformer-fluxors (T), used for the construction of apparatus that operates reliably at a high level of penetrating radiation, are considered. Several scaler circuits are proposed, which are analyzed from the point of view of obtaining the maximum volume and the counting rate with minimum number of T and timing generators, uniform distribution of the load on these generators, and minimum total power consumption by the circuit. A magnetic-flipflop circuit is described with a counting input using 5-hole T's. The flip-flop consists of four T's. A binary scaler circuit, constructed with such flip-flops and a scaler factor 2^n , uses a total of $4n$ T's. Single-step and push-pull ring scaler circuits are described, and also scaler circuits with logical feedback. Circuits of the latter type are of particular interest since the binary cell contains 4 times more cores than the ring cell. From a comparison of all the circuits considered it follows that the most suitable for the

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ACC NR: AR6016154

construction is the single-step ring circuit with logical feedback; this circuit has the largest scalar factor with a small number of T's and of timing generators. B. Ol'khov [Translation of abstract]

SUB CODE: 09

Card 2/2

L 47119-66 ENT(1) TG

ACC NR: AR6016022

SOURCE CODE: UR/0271/66/000/001/B026/B026

32

B

AUTHOR: Ioffe, A. F.

TITLE: Patterns for designing scaling circuits using multihole cores with magnetic decoupling

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 1B182

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. I. M., Atomizdat, 1964, 208-222

TOPIC TAGS: scaling circuit, trigger circuit, transfluxor, magnetic core, multihole core, magnetic decoupling

ABSTRACT: The paper concerns scaling circuits using transfluxors (T) for designing equipment with reliable operation at a high level of penetrating radiation. Many scaling circuits are proposed which are studied for obtaining maximum count, volume and rates with minimum T and system clocks, and with an even load distribution on these clocks and minimum overall requirements for the

Card 1/2

UDC: 681.142:621.374.32

L 47119-66

ACC NR: AR6016022

circuit. A magnetic trigger circuit with a digital input using five-hole trans-fluxors is described. The trigger consists of four T. A binary scaling circuit utilizing such triggers with a scaling factor of 2^n requires $4n$ T. Single-cycle and push-pull ring scaling circuits, as well as logic feedback ring circuits, are described. The logic circuits are of special interest as a binary cell has four times as many cores as a ring circuit. Comparison of the various circuits in question leads to the conclusion that a single-cycle ring circuit with a logic feedback is the most advantageous because it has a small number of T and clocks and a high scaling factor. Orig. art. has: 9 figures and a bibliography of 12 titles. [Translation of abstract]

[DW]

SUB CODE: 09/

LS
Card 2/2

L 39483-66 EWT(d)/EWP(1) IJP(c)" GG/BB/GD/GS
ACC NR: AT6002990

SOURCE CODE: UR/0000/65/000/000/0220/0231

12
B+1

AUTHOR: Ioffe, A. F.; Kuznetsov, K. F.

ORG: none

TITLE: Transfluxor-type shift register (6)

SOURCE: Vsesoyuznoye soveshchaniye po magnitnym elementam avtomatiki i vychislitel'noy tekhniki. 9th, Yerevan, 1963. Magnitnyye tsifrovyye elementy (Magnetic digital elements); doklady soveshchaniya. Moscow, Izd-vo Nauka, 1965, 220-231

TOPIC TAGS: shift register, transfluxor, magnetic element, computer

ABSTRACT: Based on American sources (D. R. Bennion, H. D. Crane, N. S. Prywes, V. F. Gianola, et al.), generally known information is presented on transfluxors: principle of operation, size, characteristics, circuits. A theory of transfluxor-type shift register is set forth; information-transmission cycle, priming cycle, and reverse-information blocking are analyzed. Formulas for currents, information-transmission optimality, time of operation, and coupling resistance are

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ACC NR: AT6002990

developed. For experimental verification, a laboratory hookup of the shift register designed with 5-hole transfluxors was tested. It exhibited stable operation at a supply-voltage variation of $\pm 15\%$ and within a temperature range of $-10 + 40^\circ\text{C}$. The high reliability of this slow-operating circuit is noted. Orig. art. has: 18 figures and 40 formulas.

SUB CODE: 09 / SUBM DATE: 23Apr65 / ORIG REF: 001 / OTH REF: 004

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multichannel amplitude analyzers with a resolution of 1000 channels per octave. The system contains a matrix of three-hole magnetic cores with

the following characteristics: "A" and "B" provide two channels of 1000 channel resolution, while "C" provides one channel of 1000 channel resolution. The "D" channel is a reference channel which provides a reference signal for the multichannel amplitude analyzers. The "E" channel is a reference channel which provides a reference signal for the multichannel amplitude analyzers.

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... to the United States, the Office of Central Intelligence prepared previously to the best of their knowledge and information, and that they believed the information contained in the document to be true and reliable.

The document is expected to be used by the FBI in any future investigation of the matter.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620012-5

~~An output unit is connected to card 101 reading amplitude~~

~~and outputting amplitude information to memory element 111, i.e.,~~
~~an output unit is connected to card 101 reading amplitude~~

~~and outputting~~

~~information to memory element 111.~~

~~SOP C-921-1E, P~~

~~100,000~~

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620012-5"

IOFFE, A.F., akademik [deceased]

What modern science and technology can give to the North.
Probl. Sev. no.6:95-97 '62. (MIRA 16:8)

(Russia, Northern—Housing)
(Russia, Northern—Food)

IOFFE, Anatoliy Fedorovich; FILINOV, Yevgeniy Nikolayevich; VIZUN,
Yu.I., red.; BUL'DYAYEV, N.A., tekhn. red.

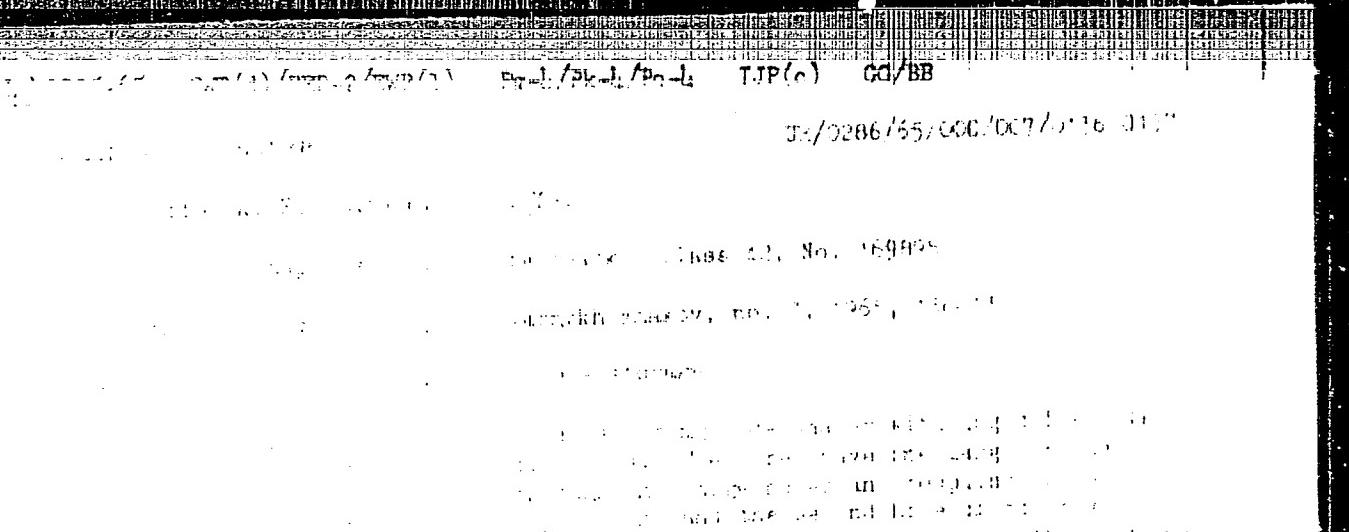
[Measurement of the parameters of ferrite cores having
rectangular hysteresis loops] Izmerenie parametrov fer-
fitovykh serdechnikov s priamougol'noi petlei gisterezisa.
Moskva, Gosenergoizdat, 1963. 134 p. (MIRA 16:9)
(Ferrates (Magnetic materials)) (Cores (Electricity))

IOFFE, A.F.

Precise measurements of the amplitude characteristics of ferrite cores with rectangular hysteresis loops. Nauch.-tekhn. sber.Gos. izd-va lit. v obz. atom.nauki i tekhn. no.62(14)121 "63
(MIRA 17:8)

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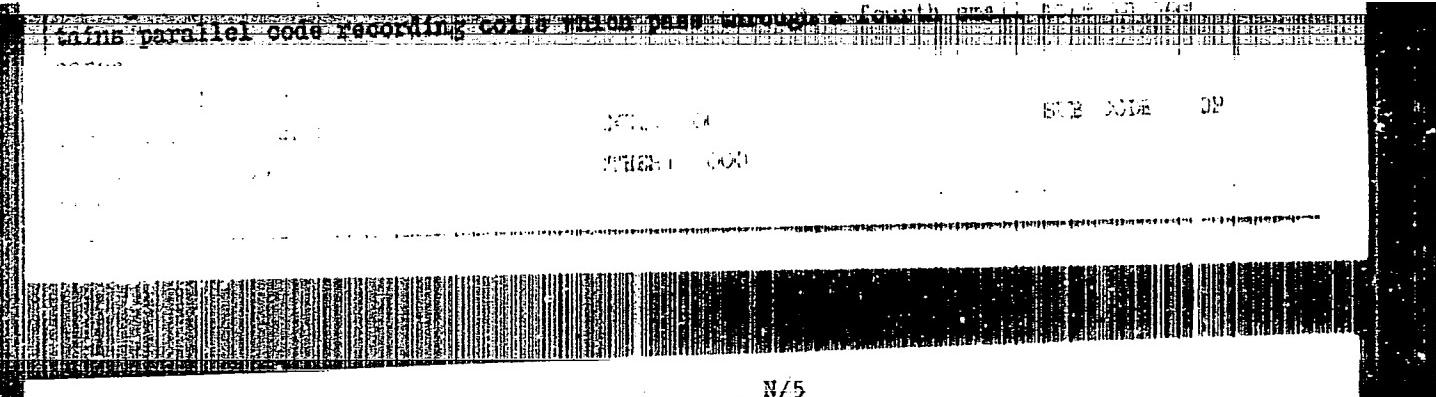


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613.633

.16

IOFFE, A G

Poluprovodniki v sovremennoy fizike (Semiconductors in contemporary physics) Moskva, Akademkniga, 1954.

355 p. gra hs.

At head of title: Akademiya Nauk SSSR.

"Osnovaya literatura po poluprovodnikam": p. 351-352.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5

GLYAVIN, V.I. (Gor'kiy); NEKHABOV, S.Ya. (Gor'kiy); IOFFE, A.G. (Gor'kiy)

Work practices used in the construction of a water intake.
Vod.1 san.tekh, no.2:32-34 F '60. (MIRA 13:5)
(Katovo region--Water-Supply engineering)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5"

25(6)

SOV/32-25-2-41/78

AUTHORS:

Krichmar, S. I., Ovcharenko, V. N., Ioffe, A. I.

TITLE:

Automatic Gas Analyzer for the Determination of Inert Gases
in Ammonia (Avtomatushkiy gazoanalizator dlya opredeleniya
inertnykh gazov v ammiae)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 2,
pp 213 - 215 (USSR)

ABSTRACT:

The apparatus described (Fig) permits a continuous inspection
of the gases used in the production of weak nitric acid. The
rate of displacement of a constant volume of an absorption
liquid in a eudiometer by the gases remaining after the ab-
sorption of ammonia in the absorption liquid is measured. The
apparatus has electrically operated valves of the KE-2 type,
an automatically balanced bridge EMD-212, and a synchronous
motor SD-60 (for turning the timing relais), as well as an
EPD potentiometer. The inert-gas content is recorded automati-
cally. A detailed description of the apparatus is contained
in the article, and it is mentioned that with the EPD
potentiometer it is necessary to correct the delay, which is
not true in the case of EPP-09. The total error is given

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Automatic Gas Analyzer for the Determination of Inert Gases SOV/32-25-2-41/78
in Ammonia

as \pm 15%. In experimental operation of the apparatus described the following conditions were obtained: Pressure of ammonia at input - 500-700 mm water column, gas consumption according to the manostat - 1.5 l per hour, duration of analysis - 8 minutes, absorption liquid to be replaced once a week - 3 l of 25% H_2SO_4 , measuring range 0.05-1.5%. A calculation formula as well as a comparative table of the analysis results obtained with this apparatus and the results of chemical analyses are given (Table). There are 1 figure and 1 table.

ASSOCIATION: Dneprodzerzhinskiy azotno-tukovyy zavod (Dneprodzerzhinsk Nitrogen-Fertilizer Plant)

Card 2/2

TOFFE, A.I.

83279

S/021/60/000/001/009/013

A158/A029

15.9130

AUTHORS: Ovcharenko, F.D., Corresponding Member of the AS UkrSSR; Blokh, H.
A.; Hudovich, H.V.; Toffe, A.I.

TITLE: Activated Diatomite - a New Rubber Filler ¹⁶

PERIODICAL: Dopovidi Akademiyi nauk Ukrayins'koyi Radyans'koyi Sotsialistichnoyi
Respubliky, 1960, No. 1, pp. 54 - 59

TEXT: In his other work (Ref. 2) the first author showed that pyrophyllite can be used in the manufacture of rubber cables, yet the strength of rubber obtained with its use is relatively low (60 kg/cm after 30 - 60 min of vulcanization at 145°C), which calls for a strengthening of such fillers through activation. The authors used the following activating agents: 1) alcamon OC-2 (OS-2), an activated Crimean diatomite (a quaternary salt of diethylamino-methylglycolic ether) that increases the strength criteria by 50 - 60% as compared to unactivated fillers during a short period (only 4 - 10 min instead of 30 - 60 min and more) and accelerates the process of vulcanization; 2) carbazolin, a quaternary salt of imidazole derivatives; 3) equalizer A, a preparation of mixed cation-active and non-ionogen types. The Crimean diatomite consisted of (in %): SiO₂ 65.33;

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Activated Diatomite - a New Rubber Filler

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CaO 2.00; Al₂O₃ 15.43; MgO 2.43; Fe₂O₃ 5.82; SO₃ 1.20; (K, Na) Cl 0.5. Even when alcamon OS-2 was introduced directly on the rollers into a rubber mixture filled with natural diatomite, strengthening of the rubber and acceleration of vulcanization were observed. The indicated positive results should be explained as a change in the chemical nature of the diatomite surface into an organophilic surface, and by the peculiarities of the structure of natural diatomite, which is capable of interacting with the structure of rubber. Table 1 shows chemico-mechanical properties of rubbers obtained with the use of pyrophyllite and diatomite. Table 2 shows the percentage of activating substances in rubbers at various regimes of vulcanization. Table 3 gives the results of the adding alcamon to rubber (in %) under various conditions of vulcanization. There are 3 tables and 3 Soviet references.

ASSOCIATION: Instytut zagal'noyi ta neorganichnoyi khimiyyi AN UkrSSR ta Dnipro-petrovs'kyy khimiko-tehnologichnyy instytut (Institute of General and Inorganic Chemistry of the AS UkrSSR and the Dnepropetrovsk Chemico-Technological Institute)

SUBMITTED: August 31, 1959

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L 11779-66 ENT(m)/EWP(j)/T RM						
ACC NR	AP6001094	SOURCE CODE:	UR/0138/65/000/012/0024/0025			
AUTHOR:	Levitin, I. A.; Petrova, V. D.; Marchenko, Ye. D.; Ioffe, A. I.					
ORG:	Moscow Tire Plant (Moskovskiy shinnyy zavod)					
TITLE:	Development and use of a waxlike antiozonant in automobile tire treads					
SOURCE:	Kauchuk i rezina, no. 12, 1965, 24-25					
TOPIC TAGS:	rubber chemical, antioxidant additive, ⁴⁴ ceresin, paraffin, petrolatum, rubber, vehicle component					
ABSTRACT:	The Moscow Tire Plant (Moskovskiy shinnyy zavod) and Moscow Petroleum and Oil Refinery (Moskovskiy neftepererabatavod) developed a waxlike antiozonant composed of natural and synthetic ceresin, paraffin, and petrolatum, the content of ceresins being predominant. A thorough study of the new antiozonant, AF-1, was carried out in tread rubbers composed of 100% SKMS-30ARKM. The protective properties of AF-1 were found to compare very favorably with those of Antilux, an imported antiozonant. AF-1 has now replaced Antilux at the Moscow Tire Plant, and its use in the tire and rubber industry for protection of rubber treads against ozone cracking is highly recommended. Orig. art. has: 2 figures and 3 tables.					
SUB CODE:	11, 13	SUBM DATE:	none	ORIG REF:	003	
HW	Card	1/1	UDC:	678.048.004.12.004.14		

IOFFE, A.I.

Noncontact indicator of a given displacement with a remote
adjustment. Izm. tekhn. no.11:62-63 N '65. (MIRA 18:12)

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CIA-RDP86-00513R000618620012-5

IOFFE, A. I.

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CIA-RDP86-00513R000618620012-5

IOFFE, A.I.; LIFSHITS, A.S.

Electric compensation of temperature errors in potentiometric pressure-recording gauges. Izm.tekh.no.3:37-40 My-Je '56. (MLRA 9:9)
(Pressure gauges)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5"

Ioffe, D. I.
LIFSHITS, A.S.; JOFFE, A.I.

Induction transformer transducers used in remote measurements of
displacements, Izm. tekhn. no.3:66-68 My-Je '57. (MLRA 10:8)
(Remote control)